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Welcome to *WasteWatch* for the new millennium!

To celebrate year 2000, *WasteWatch* has had a face lift. We've retained our masthead and colors, while adding new typefaces and column formats. Now in it's eleventh year, *WasteWatch* will continue to bring you news of the Authority and the region's waste management activities. For more information about the Authority and other waste management topics, visit the Authority's website at www.nmwda.org.
Happy New Year!

Ogden Lends a Helping Hand

First Annual Mini-Walk raises nearly \$5,000 for the homeless. **Page 2**

FY 1999: A Year of Progress

Executive Director Robin Davidov reports on the Authority's accomplishments. **Page 3**

BRESCO Retrofit Update

Nearly one-half of the retrofit project is complete. For a progress report see **Page 5**.



"America Recycles Day" sets sail with Recycled Ship

Did you know there is a Tall Ship that has sails made of recycled soda bottles and automobile bumpers? The HMS Rose was the guest of honor at an event held on October 28 in Annapolis to kick off America Recycles Day. Governor Parris Glendening was the keynote speaker. The event was sponsored by the Maryland Recyclers Coalition and included recycling exhibits from the Authority, Maryland Environmental Service, Maryland Recyclers Coalition, Maryland Department of the Environment, American Plastics Council, and Partners Quality Recycling. Other speakers included John Brunner, president, Maryland Recyclers Coalition, Fran McPoland, federal environmental executive, Cindy Ensley, Ensley Corp. and Carl Osterman, vice president, Bethlehem Steel Corp. The Authority's exhibit featured the new commercial recycling web site (see page 3).

BRESCO and Trigen Extend Steam Contract

Trigen Energy Corporation has extended its contract to purchase steam from the Baltimore Refuse Energy Systems Co. (BRESCO) for the next 12 years. The two companies are investing \$4.2 million to increase marketable electricity production by 5 megawatts. A back-

pressure turbine will be installed, which will expand electricity production by 30 million kWh annually. The project enhancements will increase overall efficiency of the BRESCO

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Robin Davidov Speaks at International Ash Re-use Conference

Authority Executive Director Robin Davidov was the keynote speaker at the Eleventh International Incinerator Ash Management and Recycling Conference in Baltimore. Ms. Davidov opened the conference with a brief history of Baltimore City and later gave a presentation on the Authority's ash management activities. The Ash-11 Conference focused on the technical, economic, and political issues involved in processing and using municipal solid waste ash. Art Balmer, Montgomery County Chief of Solid Waste Services described how the county uses its rail system to transport ash. Day two of the conference focused on the American Ash Recycling facility in York, PA. and concluded with a tour of the facility.

Clif Dowling Joins Authority as Recycling Projects Specialist

Clif Dowling has joined the Authority staff as a Recycling Projects Specialist. In this position, he will continue the commercial recycling outreach he began for Baltimore and Harford Counties. He also will work with the recycling offices of the Authority's member

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Ogden Helps School Children Raise Money for Homeless

Nearly 70 Poolestown area youngsters and adults participated in the First Annual Poolestown Mini-Walk for the Homeless at Poolestown High School on November 13, 1999.

The Mini-Walk was organized by Cherise Praniewski of Ogden Martin and was part of the Fannie Mae Foundation's 12th Annual Help the Homeless effort. Nearly \$5,000 was raised by walkers from Poolestown Elementary, Middle and High Schools, Monacacy Elementary School and the Barnesville School. The Fannie Mae Foundation matches dollar-for-dollar all funds raised by student participants. Ogden Martin added to the local effort by matching the contributions raised from the Poolestown Mini-Walk.

The funds were raised in support of the Dwelling Place, a non-profit agency based in Upper Montgomery County, which provides transitional assistance to homeless families. Through this mini-walk program, youngsters become a valuable community resource and learn to understand a serious community problem. They learn the value of community service while helping people who are less fortunate and in need.

"We would love to see the Poolestown Mini-Walk experience the nearly sixty-fold increase in funds raised for the homeless that the Fannie Mae Foundation effort has achieved over the last 12 years," exclaimed Brad

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BRESCO and Trigen Extend Steam Contract *(continued from page 1)*

facility and should be in place by the middle of this year.

BRESCO has been supplying Trigen with steam since 1986. The steam supplied by BRESCO helps Trigen reduce the amount of fossil fuel used to serve its 365 commercial, government and office-building customers throughout the City of Baltimore.

BRESCO is a 2,250 ton-per-day waste-to-energy facility. At full capacity, the plant generates more than 500,000 pounds of steam per hour, which can be utilized in the form of electricity. Trigen uses 250,000 pounds of steam per hour for direct steam heating or as energy for chillers during the summer. By using a turbine generator to convert steam into electrical energy, the BRESCO facility also is able to generate 60,000 kilowatts of energy, enough to provide electricity for up to 40,000 homes. BRESCO's steam production meets downtown Baltimore's heating needs and a portion of the city's air conditioning needs.

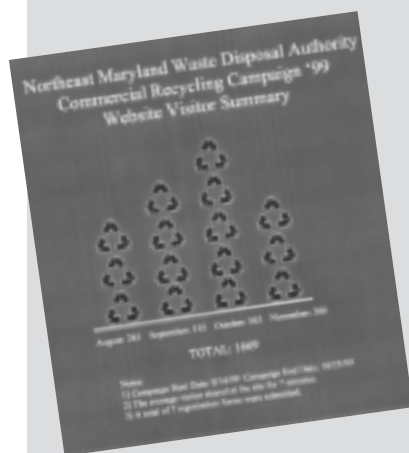
Trigen develops, owns and operates commercial and industrial energy systems. The company combines heat and power generation to produce electricity for its facilities. The remaining power is sold to customers. Trigen serves more than 1,500 facilities with energy produced at 47 plants in 32 locations, including industrial plants, electric utilities, commercial and office buildings, government buildings, colleges and universities, hospitals and residential complexes and hotels.

Steven G. Tomczewski, mid-Atlantic regional manager for Wheelabrator Technologies, a subsidiary of Waste Management, Inc., which owns BRESCO, said, "It makes good economic sense for BRESCO and Trigen to join together to extract the higher value from steam and make electricity to sell to the grid. Electricity has a higher value in the marketplace and we're now making efficient use of what would otherwise be wasted in the pressure-reducing process."



Last Fiscal Year of Decade marked by progress in all

*Authority
Executive
Director Robin
Davidov recently
reported on the
accomplishments
of fiscal year
1999, which
ended June 30.
The following is
a summary of
her report.*



As we enter a new decade, a new century and a new millennium, waste management will be one of the world's most important and dynamic quality-of-life issues. In our region, we are in the forefront of new waste management technologies, new economic opportunities and new methods of regenerating waste into usable energy and products. We are proud of the many projects the Authority is involved in and believe that we make a difference in the lives of many Maryland citizens. The projects and programs we worked on this past year have had a positive impact across our state. For example:

- The Montgomery County Resource Recovery Facility became the first waste-to-energy facility in the country to sell electricity generated at the plant on the open market. We accomplished this by quickly taking advantage of a major economic opportunity made possible by new electricity deregulation laws.
- In Baltimore, we embarked on a state-of-the-art retrofit of the BRESKO facility. When complete, air quality and water quality will be significantly improved. The retrofit will place the fifteen-year-old plant among the most environmentally clean facilities in the country.
- During the summer, we launched a new web site (www.mdrecycles.org) in conjunction with a media campaign devoted exclusively to helping and encouraging businesses throughout the Baltimore/Washington region to recycle.
- Earlier in the year, *World Waste* magazine recognized the Authority's organizational Web site (www.nmwda.org) as "one of the industry's most efficient data drills."

Fiscal Year 1999 was an extremely productive year. The following summaries present our year-in-review.



FINANCIAL ACTIVITIES

In recent years, the Authority has been successful in identifying market opportunities to help support its vital services and Fiscal Year 1999 was no exception. A project in Montgomery County exemplifies the best in public-private partnerships. New federal laws that deregulate electricity now allow us to sell electric capacity from waste-to-energy plants on the open market. Last year, the Montgomery County Resource Recovery Facility became one of the first facilities in the country to take advantage of this new revenue generating opportunity. This year, the Authority negotiated a contract with PEPCO to sell additional capacity. As a result, the Authority earned more than \$800,000 for Montgomery County.

Construction began on the air quality retrofit of BRESKO. In December 1998, the Authority sold \$41 million in tax-exempt bonds to pay for the upgrade. We began monitoring progress in February. The new air pollution control equipment will substantially reduce emissions of nitrogen oxide, mercury and acid gases. Our research has revealed that waste-to-energy facilities are far ahead of conventional fossil fuel plants in air pollution control.



PROJECT OVERSIGHT

Compliance with local, state and federal environmental regulations is critical to the mission of the Authority. Therefore, much of our work this year involved managing our five major projects — the Baltimore City Composting Facility, BRESKO, the Harford County Waste-to-Energy Facility, the Montgomery County Resource Recovery Facility and the

areas

Anne Arundel/Howard County Waste Diversion Program. We continually monitored all facilities to insure compliance with all appropriate regulations and permits. More than 1.3 million tons of solid waste and sludge were diverted from local landfills, conserving valuable landfill capacity. Among the highlights for each project are the following:

The Baltimore City Composting Facility posted record compost sales for the facility's fiscal year (November 1, 1997 – October 31, 1998). With sales of more than 83,000 cubic yards, the facility increased compost revenues by 18.5 percent.

The Harford Waste-to-Energy Facility completed its eleventh year of operations. The facility processed more than 110,000 tons of waste and continues to meet all of its permit requirements. An ash recycling pilot program that began in Fiscal Year 1998 was completed. Harford County, along with the Authority, will continue to find new ways of minimizing the amount of ash going to the county's landfill.

BRESCO completed its fifteenth year of operations and began construction of a \$34 million retrofit of the air pollution control equipment. The facility reliably processed nearly 725,000 tons of refuse this year, while recovering almost 19,000 tons of metal. BRESCO is active in the community, supporting Westport Elementary School, the South Baltimore Learning Center and regional recycling.

The Montgomery County Resource Recovery Facility completed its fourth year of operations, continuing its strong environmental compliance record by performing well below its allowable emission limits. The Authority negotiated an agreement to sell additional electrical generating capacity. Revenue from this agreement will be used to help offset the cost of operating the facility. A third prestigious award was bestowed on the

facility when the Solid Waste Association of North America selected the facility to receive the 1998 Gold Excellence Award in the category of waste-to-energy. Also this year, the Authority negotiated a one-year contract to recycle 35,000 tons of ash residue generated at the facility. The ash residue is shipped to Pennsylvania where it is processed and used as aggregate for road construction.


The Anne Arundel/Howard County Waste Diversion Program completed its second year and has helped preserve landfill space in both jurisdictions. Waste from Anne Arundel and Howard Counties is delivered by rail to the King George County Landfill in Virginia. As part of the program, the Authority monitors the landfill for permit compliance.



OTHER PROGRAMS

The Authority continued its summer waste reduction and recycling media campaign into the fall. This year, the campaign is focusing on commercial recycling. The program includes a web site (www.mdrecycles.org) for businesses. It is designed to help businesses locate places to take their recyclable materials, and provides a convenient reference for the purchase of recycled content products.

The Maryland Department of the Environment (MDE) asked the Authority to administer an EPA grant earmarked for promoting commercial recycling. We hired a commercial recycling expert who has successfully targeted numerous businesses for this recycling education outreach project.

The Authority continued to update its own web site (www.nmwda.org) which was cited in World Waste magazine for being one of the best web sites in the industry. 



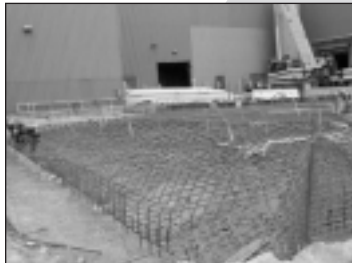
Preserving Competition and Competitive Pricing

When USA Waste, Inc. and Waste Management, Inc. announced their proposed merger in March 1998, the Authority immediately recognized the potential effect on competition in the Baltimore market. We worked closely with the Maryland Attorney General's Office and acted quickly to negotiate favorable terms in the national settlement agreement that will keep prices stable, preserve existing contracts and maintain healthy competition in Maryland. This year we began to put the consent decree into a long-term agreement.

Ground fabrication of bottom cones and rings for SDAs #2 and #3. These pieces will be lifted and set into place with the Texas Tornado crane. ►



Overview of foundation for lime preparation building, which will house equipment for the lime preparation and delivery system including the slaking equipment, pumps and control panels. Close up of rebar for concrete floor slab.



To aid with the ash dust control, a wet vent scrubber has been installed at SDA #1.



SDA #1 is fully erected with penthouse. Now with scaffolding in place, work crews are covering the unit with insulation and lagging.



BRESCO RETROFIT

update:

A year from now, the BRESCO plant will be operating with the new air pollution control equipment in place. At this point, the retrofit project is almost one-half complete. Twenty nine of the 70 milestones have been met. The second phase of the building permit has been approved by the Baltimore City Building Department. Although most of the engineering work is finished, Wheelabrator Air Pollution Control and Burns & Roe will continue to support the project by reviewing vendor submittals and resolving questions which arise in the field.

All of the equipment vendors have been selected. Subcontracts were recently awarded for the door supply/installation, dilution water tank fabrication/erection, piling, Phase III electrical, existing roof repairs, and for completion of the new roof.


A great deal of progress was made last fall in the areas of site, building, electrical and mechanical work. One of the big accomplishments was completing the cold iron outage that took place in early October. During the outage, the entire plant was taken off line and the delivery of waste was suspended. This was an opportunity to perform specific tasks and routine maintenance that can not be performed when the plant is in operation. For example, tying in or connecting the export steam station piping to the rest of the facility.

The foundation for the lime preparation area was completed. The subgrade was prepared. This included installing pipes, preparing subgrade, installing rebar and pouring concrete.

Concrete and block work for the new emergency generator room was finished, while concrete and steel work in the building continues. The existing elevator machine room was demolished and the masonry for the new elevator machine room was completed. An elevator shaft was installed above the fifth floor. A new pipe bridge, which will carry such things as atomizing air, lime slurry and dilution water from the lime preparation building to the boiler building, has been installed.

Hopper heater installation has been completed on all three electrostatic precipitators as well as set up of hopper heater controls. These heaters are located on the bottom third of the hopper and provide enough heat to keep the wall temperature above 300° F. The emergency generator was rewired and the conduits in the ash conditioning area were relocated.

The majority of mechanical work performed on the plant involved the Spray Dryer Absorbers. On the seventh and eighth floor SDA drain piping was laid. The ground fabrication of SDA #1 and its penthouse was finished and ground fabrication of SDAs #2 and #3 got underway. SDA #1 is fully constructed and SDAs #2 and #3 are partially constructed. In addition to the SDA work, the new elevator machinery was assembled. During the cold iron outage, several piping tie-ins were completed including the export steam station, instrument air, and water system.

The project remains on track for a mechanical completion date of September 2000 and a compliance deadline of December 19, 2000. For more information check out the project web site at www.brescoupgade.com. 


NMWDA PEOPLE

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Clif Dowling

jurisdictions to identify and divert recyclable commercial waste that is currently going to landfills.


Mr. Dowling has a bachelor's degree in Conservation of Natural Resources from the University of California at Berkeley. He is a former Army Ordnance Officer and is currently President of the Susquehannock Environmental Center. He has been on the board of directors since 1978. 

State Recycling and Solid Waste Professionals Develop Management Strategies for the Future

A training program for recycling coordinators and solid waste managers, was held at Bon Secours Spiritual Center, December 1 and 2. The event titled, *Moving to the Next Level: Management Tools for Successful Programs*, offered an opportunity for participants to enhance waste management skills.


A panel discussion was offered by Maryland Senator Roy Dyson, Delegate Bill Bronrott and Pamela Metz Kasemeyer, director of the Maryland-

Delaware Solid Waste Association. This group discussed how recycling and solid waste professionals can focus the attention of public officials on recycling and solid waste issues.

The conference emphasized the importance of developing solid waste programs that are well developed in the areas of strategic and budget planning, team building, persuasion and public perception, and information technology. 

Ogden Helps School Children Raise Money for Homeless (continued from page 2)

Crispell, business manager for Ogden Martin and board member of the Dwelling Place.

Walkers received T-shirt's from the Fannie Mae Foundation and were greeted at the end of the walk with hot chocolate, doughnuts, apples and bananas provided by Selby's, Bassett's and McDonald's. Ogden Martin plans to organize the event again next year and for years to come. 

Brad Crispell, Business Manager for Ogden Martin and Elaine Shirer, Executive Director of the Dwelling Place at the Poolesville Mini-Walk.



Northeast
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